

# Calibration results

Matt S., Pelle, Omar, Ben

# Overview

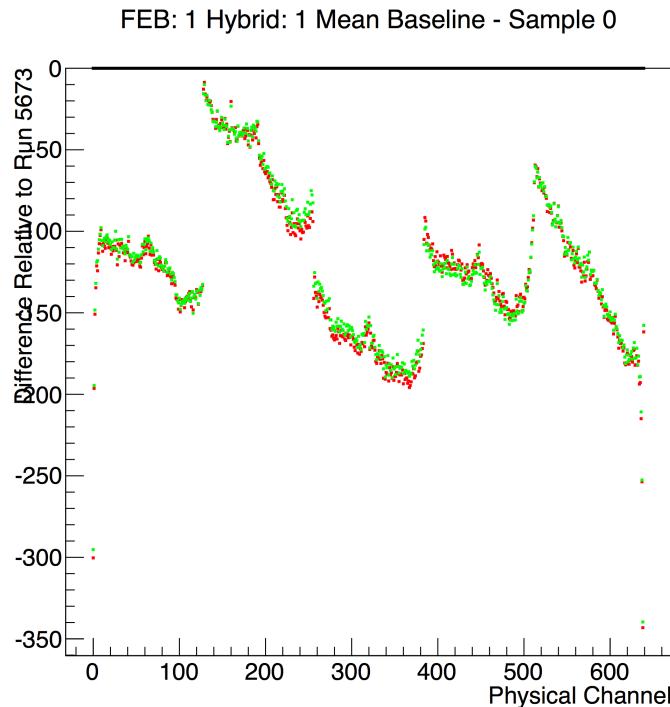
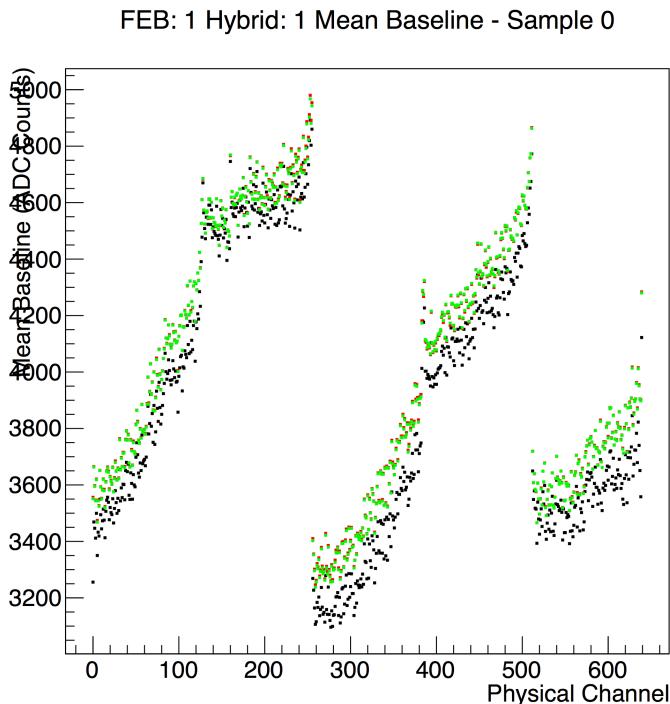
- Compare calibration results this fall compared to last calibration during spring running
  - Comparison vs physical channels
  - Should add vs readout order by default as well
- Calibration runs
  - Run 5672: May, 2015, Hybrid T ~-13C
  - Fall runs
    - Run 6127: Sep. 17, 2015 Hybrid T~+8C
      - Same firmware and software since spring testing i.e.
    - Run 6139: Sep. 28, 2015, Hybrid T~+8C
      - New control DPM firmware and new software

Black: eng run, red: 6127, green: 6139

# Baseline

- Typical baseline shift of  $\sim 150$  ADC

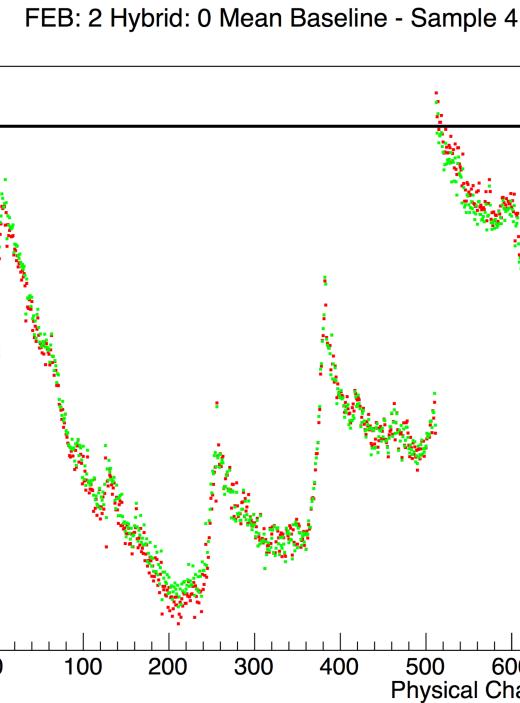
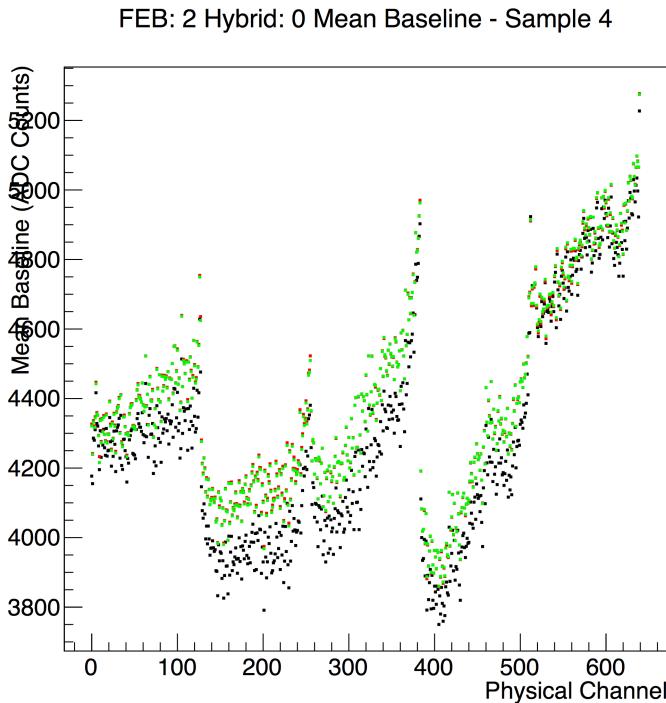
L4b



# Baseline

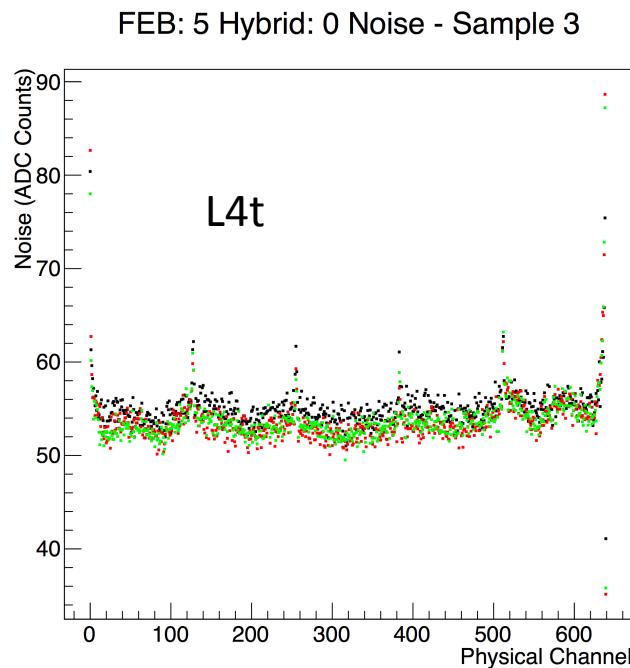
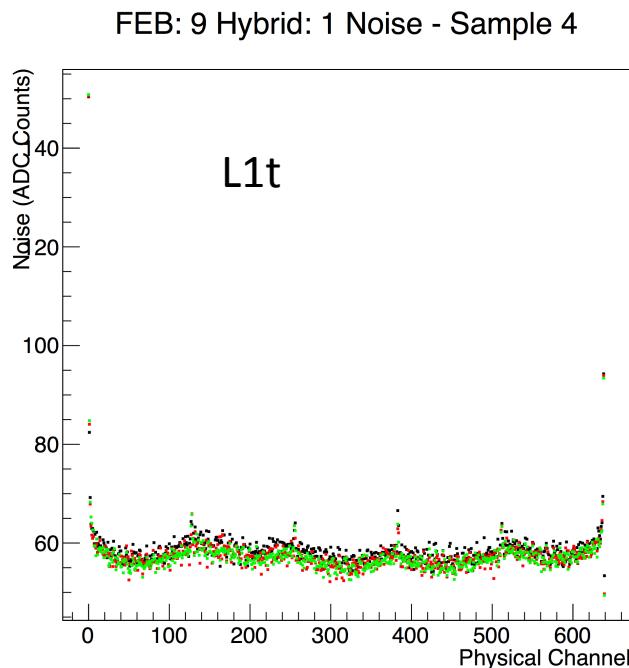
- Typical baseline shift of  $\sim 150$  ADC

L1b



# Noise

- Noise level decrease by  $\sim 2$  ADC counts



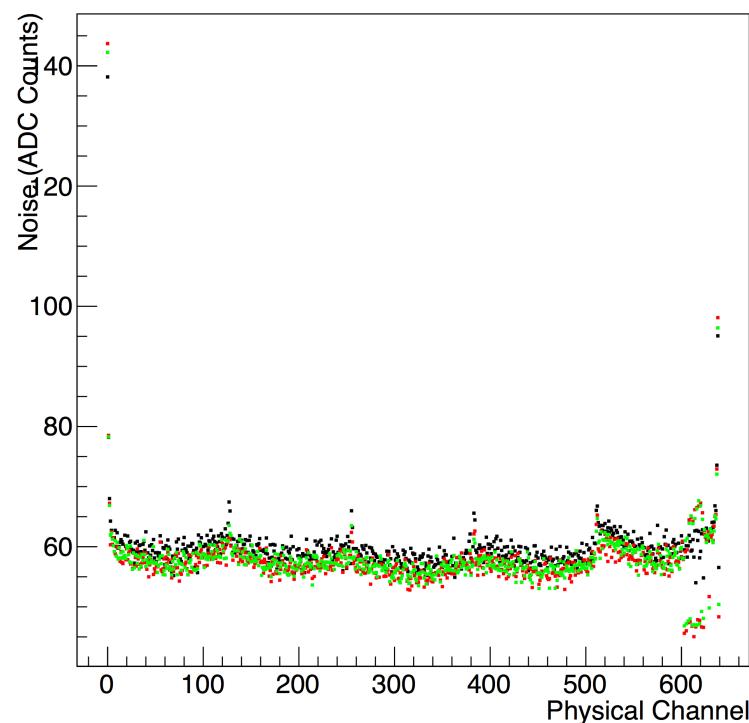
# Two issues

- One APV with ~20 channels nearby each other at  $\frac{1}{2}$  noise
  - F2H1
- Many ~5 channels/apv with  $\frac{1}{2}$  noise: more or less periodic vs physical channel
  - F3H2, F3H3 (similar to F3H2 but much smaller effect), this is L6b
  - F7H2, F7H3, both similar to F3H2, seems more channels are affected, this is L6b

# Issue 1

- One APV with half channels at  $\frac{1}{2}$  noise

FEB: 2 Hybrid: 1 Noise - Sample 4



# Issue 2

- Low noise groups “periodic” vs physical channel
- A few channels with higher noise

